WHAT IS CLAIMED IS:

1	1. A method of providing a communications service in a
2	system including a calling party, a first receiving party
3	having a first computer and a first telephone device; and
4	a second receiving party having a second computer and a
5	second telephone device, the method comprising:
6	detecting a hook flash;
7	in response to detecting a hook flash,
8	transmitting call related data, at
9	least some of which was previously
10	provided to the first computer, to the
11	second computer; and
12	establishing a voice connection
13	between the calling party and the second
14	telephone device.

- 1 2. The method of claim 1, wherein the call related data includes sales information.
- The method of claim 1, wherein the step of detecting a hook flash includes:
- operating a telephone switch coupling the calling party to the first telephone device by a
- 5 telephone line to monitor the telephone line for a hook
- 6 flash.
- 1 4. The method of claim 3, further comprising the step
- of setting a hook flash mid-call trigger on said

- 3 telephone line at the telephone switch prior to
- 4 performing the step of detecting a hook flash.
- 1 5. The method of claim 3, wherein the step of
- transmitting call related data to the second computer
- 3 includes:
- operating the telephone switch in response to
- 5 activation of a mid-call trigger to send a message to a
- 6 service control point;
- 7 operating the service control point to send a
- 8 message to a server; and
- 9 operating the server to transmit said call
- 10 related data to the second computer.
- 1 6. The method of claim 5, wherein the telephone switch
- 2 sends a telephone number received from the first
- 3 receiving party with the message sent to the service
- 4 control point, the method further comprising:
- 5 operating the service control point to
- 6 determine the status of the telephone line identified by
- 7 the telephone number.
- 1 7. The method of claim 6, wherein the step of operating
- 2 the service control point to determine the status of the
- 3 telephone line includes:
- operating the service control point to transmit
- a monitor for change message to the telephone switch; and

- receiving from the telephone switch a message indicating the status of the telephone line identified by
- 8 said telephone number.
- 1 8. The method of claim 6, wherein the step of
- establishing a voice connection between the calling party
- and the second telephone device includes:
- 4 operating the service control point to instruct
- 5 the telephone switch to establish a telephone call
- 6 between the first receiving party and the party
- 7 identified by said telephone number;
- 8 operating the telephone switch to detect an
- 9 additional hook flash; and
- in response to detecting the additional hook
- 11 flash, operating the telephone switch to add the calling
- party to the telephone call established between the first
- 13 receiving party and the party identified by said
- 14 telephone number.
 - 1 9. The method of claim 8, wherein the party identified
 - by said telephone number is the second receiving party.
 - 1 10. The method of claim 1, wherein the step of
 - 2 transmitting call related data to the second computer
 - 3 includes:
 - 4 operating a server to receive a telephone
 - 5 number from the first receiving party;

5

6	operating the server to look-up an address of
7	the second computer from the received telephone number;
8	and
9	generating a message to the second computer
10	including said address and said call related data.
1	11. The method of claim 10, further comprising the step
2	of:
3	transmitting the generated message to the
4	second computer using a communications network which
5	support Internet Protocol communications.
1	12. The method of claim 10, further comprising, prior to
2	operating the server to receive said telephone number:
3	operating a telephone switch coupled to the
4	first telephone device to transmit said telephone number
5	to a service control point; and
6	operating the service control point to transmit
7	said telephone number to the server.
1	13. The method of claim 12, wherein the step of
2	establishing a voice connection between the calling party
3	and the second telephone device includes:

operating the service control point to control

the telephone switch to initiate a telephone call to the

second telephone device using said telephone number.

- 1 14. The method of claim 13, wherein the step of
- 2 establishing a voice connection between the calling party
- and the second telephone device includes:
- 4 operating the telephone switch to initiate a
- 5 telephone call to the second telephone device using said
- 6 telephone number.
- 1 15. The method of claim 1, wherein the step of
- 2 establishing a voice connection between the calling party
- and the second telephone device includes:
- determining the status of a telephone line
- 5 coupled to the second telephone device.
- 1 16. The method of claim 15, wherein the step of
- determining the status of the telephone line includes:
- 3 operating a serve to determine the status of
- 4 said telephone line from the second computer, the second
- 5 computer being coupled to the second telephone device.
- 1 17. The method of claim 1, wherein the step of
- determining the status of the telephone line includes:
- operating a service control point to send a
- 4 monitor for change message to a telephone switch; and
- operating the service control point to receive
- telephone line status information in response to the
- 7 monitor for change message.
- 1 18. A communications method, the communications method
- 2 comprising:

3	transmitting a monitor for change message to a
4	telephone switch, the monitor for change message
5	including a first telephone number;
6	operating the telephone switch to determine the
7	status of a telephone line corresponding to the first
8	telephone number; and
9	controlling the telephone switch to perform a
10	call routing operation as a function of the determined
11	telephone line status.
1	19. The method of claim 18, wherein the step of
2	controlling the telephone switch includes:
3	establishing a call using the first telephone
4	number if it is determined that the telephone line
5	corresponding to the first telephone number is not busy.
1	20. The method of claim 19, further comprising:
2	operating a server to transmit call related
3	data to a computer identified as being associated with
4	the first telephone number.
1	21. The method of claim 18, further comprising the step
2	of:
3	operating the telephone switch to supply the
4	determined line status to a service control point; and
5	wherein the step of controlling the telephone
6	switch to perform a call routing operation includes:
7	operating the service control point

to provide a second telephone number to the

9	telephone switch to be used in said call
10	routing operation if the determined line status
11	indicates that said telephone line is busy.

- 1 22. The method of claim 21, wherein the step of 2 controlling the telephone switch to perform a call
- 3 routing operation further includes:
- operating the service control point to receive the second telephone number from a server including automated call distribution functionality.
- 1 23. The method of claim 22, further comprising:
- operating said server to transmit call related
- data to a computer identified as being associated with
- the second telephone number.
- 1 24. The method of claim 18, further comprising, prior
- 2 to transmitting a monitor for change message,
- setting a hook flash mid-call trigger at the
- telephone switch on a telephone line.
- 1 25. The method of claim 18, further comprising:
- 2 receiving the first telephone number over said
- 3 telephone line; and
- in response to the hook flash mid-call trigger
- being activated, sending the first telephone number to a
- 6 service control point.
- 1 26. The method of claim 25, further comprising:

	-30-
2	operating the service control point to generate
3	said monitor for change message; and
4	wherein the step of transmitting a monitor for
5	change message to the telephone switch includes:
6	operating the service control point
7	to transmit the monitor for change message
8	including the first telephone number to the
9	telephone switch.
1	27. The method of claim 26, further comprising the step
2	of:
3	operating the service control point to transmit
4	the first telephone number to a server; and
5	operating the server to transmit call related
6	data to a computer associated with the first telephone
7	number.
1	28. The method of claim 26, further comprising the step

- 2 of:
- operating the service control point to transmit 3 the first telephone number to a server; and 4 operating the server to transmit call related 5 data to a computer associated with the first telephone 6 number. 7
- A communications system, comprising: 1
- a service control point including instructions 2 to transmit a monitor for change message to a telephone 3 switch, the monitor for change message including a first 4

- 5 telephone number and including instructions to control
- 6 initiation of a call as a function of telephone line
- 7 status information received in response to the monitor
- 8 for change message; and
- a telephone switch including means for
- 10 processing monitor for change messages, said means
- operating to control the telephone switch to determine
- the status of a telephone line corresponding to the first
- 13 telephone number.
- 1 30. The communication system of claim 29, wherein the
- 2 telephone switch includes:
- means for setting a hook flash mid-call trigger
- 4 on a telephone line; and
- 5 means for transmitting a telephone number
- 6 received by the switch to the service control point in
- 7 response to activation of the hook flash mid-call
- 8 trigger.
- 1 31. The communication system of claim 29, wherein the
- 2 instructions to transmit a monitor for change message are
- 3 stored in a call processing record.
- 1 32. The communications system of claim 29, further
- 2 comprising:
- a server including automated call distribution
- 4 functionality coupled to said service control point.

6

The communications system of claim 32, further 33. 1 2 comprising: a first computer system coupled to the server 3 by a network which supports Internet Protocol 4 communications; and 5 a first telephone device coupled to said 6 telephone switch and said first computer system, the 7 computer system including a telephone application 8 programming interface for interfacing with said first 9 telephone device. 10 The communications system of claim 33, further 1 comprising: 2 a second computer system coupled to the server by said network which supports Internet Protocol communications; and 5 a second telephone device coupled to said 7 telephone switch and said first computer system, the computer system including a telephone application 8 programming interface for interfacing with said second 9 10 telephone device. The communications system of claim 34, wherein the 1 35. server includes a database for each of a plurality of 2 telephone service subscribers, the database including for 3 each telephone service subscriber, a telephone number 4

associated with a telephone device used by the service

subscriber and a communications address which can be used

- 7 to communicate with a computer system used by said
- 8 service subscriber.
- 1 36. The communications system of claim 35, wherein the
- 2 service control point further includes a call processing
- 3 record for a plurality of the telephone service
- 4 subscribers for which information is stored in the server
- 5 database.
 - 37. A communications system including:
- a server including information on a plurality
- of telephone service subscribers, the information for
- each of the plurality of telephone service subscribers
- 5 including a telephone number associated with the
- 6 telephone service subscriber and a communications address
- 7 corresponding to a computer used by the telephone service
- 8 subscriber;
- a service control point including a call
- 10 processing record for each of at least some of the
- plurality of telephone service subscribers for which
- information is stored in the server, the service control
- point being coupled to the server by a first
- 14 communications network; and
- a telephone switch coupled to the service
- 16 control point and to at least one telephone device
- associated with a telephone service subscriber, the
- telephone switch having a hook flash mid-call trigger set
- on at least one telephone line associated with a

- 20 telephone service subscriber for which information is
- 21 stored in said server.
 - 1 38. The communications system of claim 37, wherein at
 - least one of the call processing records stored in said
 - 3 service control point includes instructions for sending a
 - 4 monitor for change message to said telephone switch in
- response to receiving a message from said telephone
- 6 switch indicating that the hook flash mid-call trigger
- 7 was activated.
- 1 39. A communications system, the communications system
- 2 including:
- a telephone switch having a hook flash midcall
- 4 trigger set on a telephone line; and
- 5 a service control point coupled to the
- 6 telephone switch, the service control point including a
- 7 call processing record, the call processing record
- 8 including instructions to send a monitor for change
- 9 message to said telephone switch in response to the
- 10 service control point receiving a message from said
- 11 telephone switch that was generated in response to
- 12 activation of said hook flash midcall trigger.
- 1 40. The communication system of claim 39, further
- 2 comprising:
- a server including a routine for sending call
- 4 related information to a computer system associated with
- 5 a telephone number; and

6	wherein the call processing record in said
7	service control point further includes instructions for
8	controlling the service control point to transmit a
9	telephone number, included in said message from said
10	telephone switch, to said server.